# RSPA-57-3170-10

### Wong, Kin

INTERETS

From:

Davis Tonita L Civ HQ AFMS/LG [Tonita.Davis@wpafb.af.mil] Wednesday, February 27, 2002 1:21 PM 'Kin Wong', 'Shareef Jameelah'

Sent:

To:

02 JUL 10 PM 3: 10

Cc: Subject: Davis Tonita L Civ HQ AFMC/LG; Posten Ryan

RE: Renewal of E-11989-Part 2



Kin,

As requested, USADACS Drawing 19-48-8720-SP15M14 is attached to this email. The final drawing will follow.

Tonita Davis

----Original Message----

From: Kin Wong [mailto:Kin.Wong@RSPA.dot.gov] Sent: Tuesday, February 26, 2002 11:42 AM

To: 'Shareef Jameelah'

Cc: 'Davis Tonita'; Posten Ryan Subject: Renewal of E-11989

### Jameelah:

The above exemption is still waiting to be signed. In the mean time can you send us copies of the drawings mentioned in the application of August 3, 2001?

USADACS Drawing 19-48-8720-SP15M14 USADACS Drawing 19-48-8719-SP15M13 USADACS Drawing 19-48-8721-SP15M15

We found out that they did not accompany the application letter. Thanks.

Kin

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06/28/01		

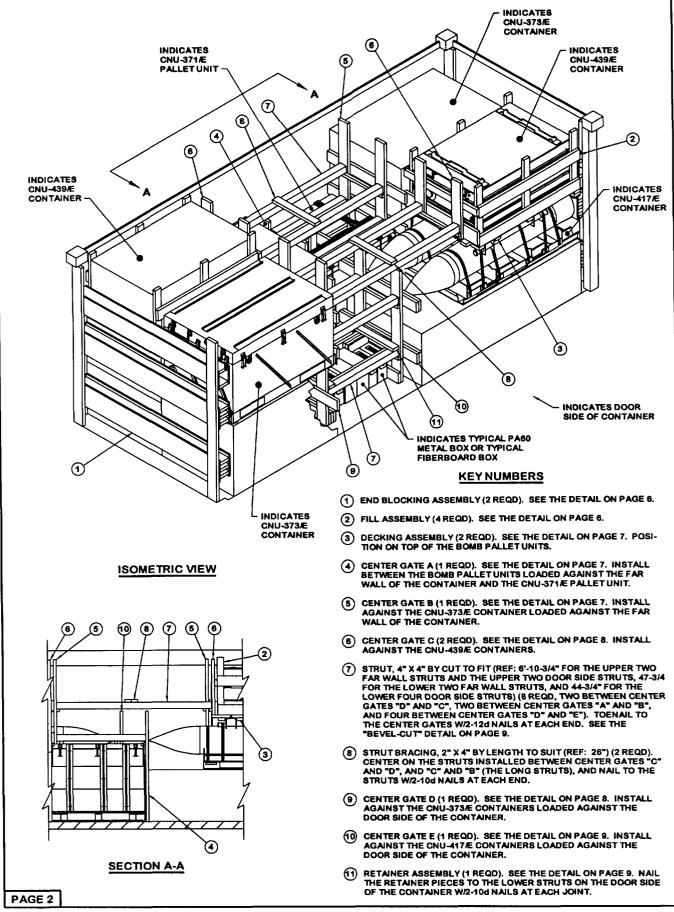
# LOADING AND BRACING IN SIDE OPENING ISO CONTAINERS OF 2,000 POUND GUIDED BOMB UNITS (GBU-24/BLU-109/B), COMPLETE ROUND

### INDEX

<u>ITEM</u>	PAGE(S)
TYPICAL LOADING PROCEDURES	
GENERAL NOTES AND MATERIAL SPECIFICATIONS	
PALLET UNIT AND CONTAINER DETAILS	
DETAILS	5-10

■ LOADING AND BRACING SPECIFICATIONS SET FORTH WITHIN THIS DRAWING ARE APPLICABLE TO LOADS THAT ARE TO BE SHIPPED BY TRAILER/CONTAINER-ON-FLATCAR (T/COFC) RAIL CARRIER SERVICE. THESE SPECIFICATIONS MAY ALSO BE USED FOR LOADS THAT ARE TO BE MOVED BY MOTOR OR WATER CARRIERS.

### U.S. ARMY MATERIEL COMMAND DRAWING APPROVED, U.S. ARMY OPERATIONS SUPPORT COMMAND BASIC LAURA A. FIEFFER **DO NOT SCALE** FNGINEER REV. WEBSITE: HTTP://WWW.DAC.ARMY.MIL BASIC TECHNICIAN REV. **MAY 2001** DRAFTSMAN REV. APPROVED BY ORDER OF COMMANDING GENERAL, TRANSPORTATION ENGINEERING DIVISION U.S. ARMY MATERIEL COMMAND CLASS DIVISION DRAWING VALIDATION ENGINEERING DIVISION SP15M14 19 48 8720 ENGINEERING DIRECTORATE Wellow P. Freis U.S. ARMY DEFENSE AMMUNITION CENTER



### (GENERAL NOTES CONTINUED)

J. CONVERSION TO METRIC EQUIVALENTS: DIMENSIONS WITHIN THIS DOCUMENT ARE EXPRESSED IN INCHES AND WEIGHTS ARE EXPRESSED IN POUNDS. WHEN NECESSARY, THE METRIC EQUIVALENTS MAY BE COMPUTED ON THE BASIS OF ONE INCH EQUALS 25.4MM AND ONE POUND EQUALS 0.454 KG.

### K. MAXIMUM LOAD WEIGHT CRITERIA:

THE MAXIMUM LOAD WEIGHTS ARE CONTROLLED BY EQUIPMENT CAPABILITY FACTORS. ALTHOUGH THE HEAVIEST MAXIMUM LOADS ARE DELINEATED IN THE LOAD VIEWS, PROVISIONS ARE INCLUDED WITHIN THIS DRAWING SO THAT THE BASIC LOADS CAN BE ADJUSTED TO SATISFY A LESSER QUANTITY OF LADING UNITS. DEPENDING ON TRANSPORTATION ROUTING, IT MAY BE NECESSARY TO REDUCE THE LOAD WEIGHT TO SATISFY "WEIGHT LAWS" OF CERTAIN STATES. ALSO, IT MAY BE NECESSARY TO REDUCE THE LOAD WEIGHT TO SATISFY OTHER WEIGHT RESTRICTIONS IMPOSED ON THE INTERMODAL CONTAINER SYSTEM.

- L. REQUIREMENTS CITED WITHIN THE ASSOCIATION OF AMERICAN RAILROADS (AAR) INTERMODAL LOADING GUIDE APPLY WHEN THE SHIPMENT MOVES BY TRAILER/CONTAINER-ON-FLATCAR (T/COFC). SPECIAL T/COFC NOTES FOLLOW:
  - A LOADED CONTAINER MUST BE ON A CHASSIS EQUIPPED WITH TWO BOGIE ASSEMBLIES WHEN BEING MOVED IN TOFC SERVICE.
  - THE LOAD LIMIT OF A TICOFC RAILCAR MUST NOT BE EX-CEEDED, NOR WILL A CAR BE LOADED SO THAT THE TRUCK UNDER ONE END OF THE CAR CARRIES MORE THAN ONE-HALF OF THE LOAD LIMIT FOR THAT CAR,
- M. DURING INTRASTATE AND/OR INTERSTATE MOVES BY MOTOR CARRIER, A PROPER CHASSIS OR MODIFIED FLATBED TRAILER MUST BE USED TO PRECLUDE VIOLATION OF ONE OR MORE "WEIGHT LAWS" APPLICABLE TO THE STATE OR STATES INVOLVED.
- N. WHETHER A CONTAINER IS FULL OR IS LOADED WITH A REDUCED QUANTITY OF LADING UNITS, THE LENGTHWISE CENTER OF GRAVITY OF THE LOAD MUST BE WITHIN 12", IN EITHER DIRECTION, OF THE MID-POINT OF THE CONTAINER.
- O. ANTI-CHAFING MATERIAL, CONSISTING OF NEUTRAL BARRIER MATERIAL, PLYWOOD, OR HARDBOARD, MAY BE INSTALLED AT POINTS OF CONTACT BETWEEN THE LADING AND THE SIDE OPENING CONTAINER TO PREVENT CHAFING DAMAGE TO CONTAINER PAINT AND MARKINGS.

### LOAD AS SHOWN

ITEM	QUANTITY	WEIGHT (APPROX)
WITH BLU-	CONTAINER 109/B 4	17,880 LBS
WITH WGU-	PALLET UNIT 39/B 1 CONTAINER	1,289 LBS
WITH BSU-	84A/B 4	4, 168 LBS
WITH ADG-	769/B 2	932 LBS 4 LBS
F809 BOX		84 LBS 5 LBS
DUNNAGE CONTAINER		1, 152 LBS 6, 050 LBS
	TOTAL WEIGHT	31,564 LBS (APPROX)

B	ILL OF MATERIA	L
LUMBER	LINEAR FEET	BOARD FEET
1" X 4" 2" X 2" 2" X 4" 2" X 6" 2" X 8" 4" X 4"	7 21 83 330 8 8 37	3 7 55 330 10 49
	NO. REQD	POUNDS
10d (3") 12d (3-1/4")	378 296	2-1/4 4-3/4
PLYWOOD, 1/2" - PLYWOOD, 3/4" -	31.67 SQ FT REQD - 93.61 SQ FT REQD -	43.54 LBS 193.06 LBS

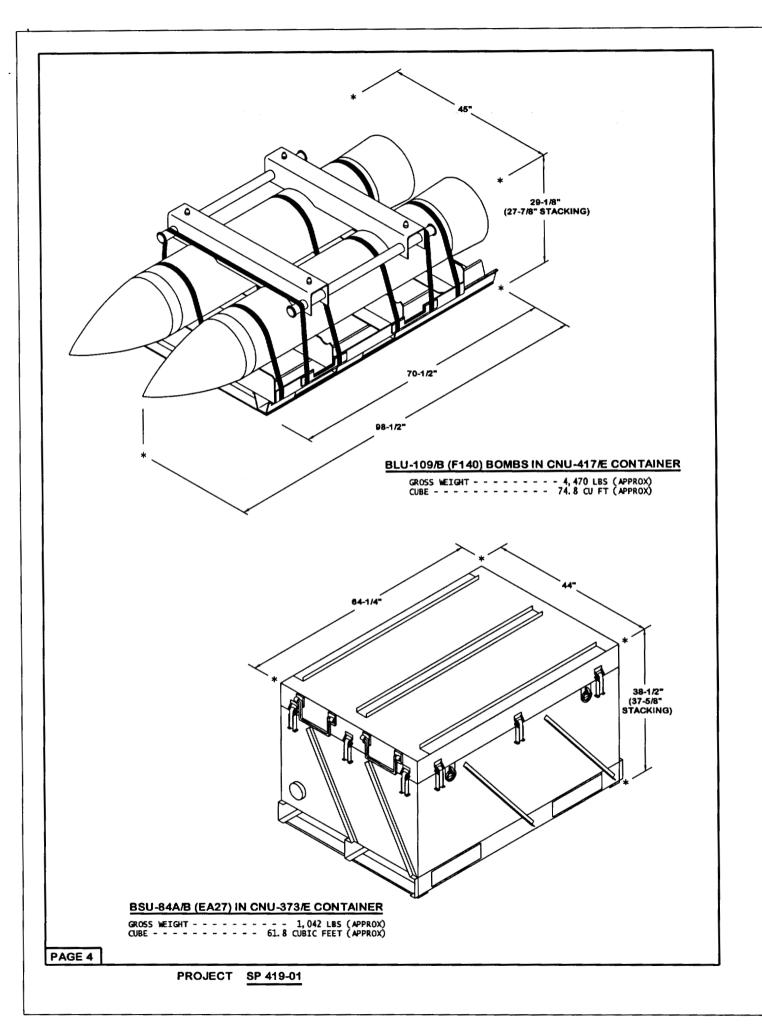
### **GENERAL NOTES**

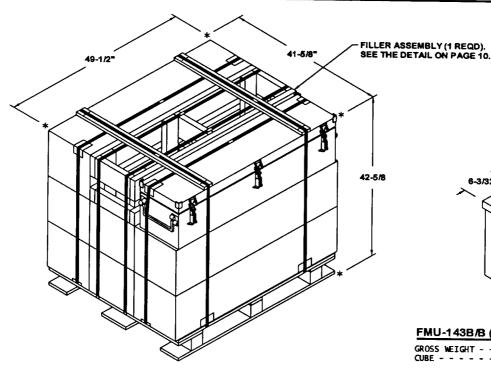
- A. THIS DOCUMENT HAS BEEN PREPARED AND ISSUED IN ACCOR-DANCE WITH AR 740-1 AND AUGMENTS TM 743-200-1 (CHAPTER 5).
- B. THE OUTLOADING PROCEDURES SPECIFIED IN THIS DRAWING ARE APPLICABLE TO LOADS OF 2,000 LB GBU-24 (BLU-109) BOMBS, INCLUDING ASSOCIATED COMPONENTS. SUBSEQUENT REFERENCE TO CONTAINER HEREIN MEANS THE CONTAINERS WITH THE GBU-24 COMPONENTS. SEE PAGES 4 AND 5 FOR DETAILS OF THE COMPONENTS. CAUTION: REGARDLESS OF THE QUANTITY OF UNITS TO BE SHIPPED, THE "MAXIMUM GROSS WEIGHT" OF THE SIDE OPENING ISO CONTAINER MUST NOT BE EXCEEDED.
- C. THE LOADS AS SHOWN ARE BASED ON A 8,050 POUND 20' LONG BY 8' WIDE BY 8'-6" HIGH SIDE OPENING ISO CONTAINER WITH INSIDE DIMENSIONS OF 19'-4" LONG BY 89" WIDE BY 88" HIGH AND A MAXIMUM GROSS WEIGHT OF 52,910 POUNDS. THE LOAD IS DESIGNED FOR TRAILER/CONTAINER-ON-FLATCAR (T/COFC) SHIPMENT, HOWEVER, THE LOAD AS DESIGNED CAN ALSO BE MOVED BY MOTOR OR WATER CARRIERS. NOTICE: OTHER CONTAINERS OF THE SAME DESIGN CONFIGURATION CAN ALSO BE USED.
- D. WHEN LOADING THE UNITS, THEY ARE TO BE POSITIONED SO AS TO ACHIEVE A TIGHT LOAD (TIGHT AGAINST THE DUNNAGE ASSEMBLIES). THE UNBLOCKED SPACE ACROSS THE WIDTH OF A LOAD BAY IS NOT TO EXCEED 1-1/2". EXCESSIVE SLACK CAN BE ELIMINATED FROM A LOAD BY LAMINATING ADDITIONAL PIECES OF APPROPRIATE THICKNESS TO THE FILL ASSEMBLIES. NAIL EACH ADDITIONAL PIECE TO A HORIZONTAL PIECE WIT APPROPRIATELY SIZED NAIL EVERY 12". ADDITIONALLY, THE THICKNESS OF THE HORIZONTAL AND VERTICAL PIECES MAY BE ADJUSTED AS REQUIRED TO FACILITATE VARIANCE IN THE SIZE OF THE CONTAINED
- E. DUNNAGE LUMBER SPECIFIED IS OF NOMINAL SIZE. FOR EXAM-PLE, 1" X 6" MATERIAL IS ACTUALLY 3/4" THICK BY 5-1/2" WIDE AND 2" X 6" MATERIAL IS ACTUALLY 1-1/2" THICK BY 5-1/2" WIDE.
- F. A STAGGERED NAILING PATTERN WILL BE USED WHENEVER POS-SIBLE WHEN NAILS ARE DRIVEN INTO JOINTS OF DUNNAGE AS-SEMBLIES OR WHEN LAMINATING DUNNAGE. ADDITIONALLY, THE NAILING PATTERN FOR AN UPPER PIECE OF LAMINATED DUNNAGE WILL BE ADJUSTED AS REQUIRED SO THAT A NAIL FOR THAT PIECE WILL NOT BE DRIVEN THROUGH ONTO OR RIGHT BESIDE A NAIL IN A LOWER PIECE.
- G. IN SOME CONTAINERS THERE IS A SLOT AT THE CORNERS OF THE ENDWALLS. PIECES OF DUNNAGE MATERIAL MUST BE LAMINATED TO THE BUFFER PIECES ON THE END BLOCKING ASSEMBLIES TO PROVIDE A FLAT SURFACE FOR THE BUFFER PIECES. A PIECE OF 2" X 4", 2" X 3" OR A SPECIAL WIDTH PIECE CUT-TO-FIT CAN BE USED. THIS FILL PIECE WILL BE NAILED WITH ONE APPROPRIATELY SIZED NAIL EVERY 12". NOTE THAT SOME CONTAINERS ARE EQUIPPED WITH "TIE-BARS" IN THE CORNER SLOT, WHICH PRECLUDE THE USE OF A FULL HEIGHT FILL PIECE. WHEN "TIE-BARS" ARE PRESENT, THE FILL PIECE MUST BE INSTALLED IN SEGMENTS DESIGNED TO FIT BETWEEN THE "TIE-BARS" VERTICALLY. THE FILL PIECE(S) IS NOT REQUIRED WHEN THE CORNER PORTIONS OF THE CONTAINER ENDWALLS ARE SMOOTH AND FLAT. DO NOT ALLOW ANY DUNNAGE ASSEMBLY TO CONTACT THE CONTAINER ENDWALLS, ONLY THE CORNER POSTS OF THE CONTAINER SHOULD BE USED FOR LONGITUDINAL BLOCKING.
- H. CAUTION: DO NOT NAIL DUNNAGE MATERIAL TO THE CONTAINER WALLS OR FLOOR. ALL NAILING WILL BE WITHIN THE DUNNAGE. PORTIONS OF THE CONTAINER DEPICTED WITHIN THIS DRAWING, SUCH AS THE SIDE DOORS, HAVE NOT BEEN SHOWN IN THE LOAD VIEW FOR CLARITY PURPOSES.

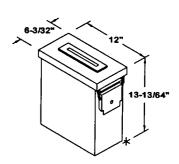
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### **MATERIAL SPECIFICATIONS**

LUMBER:	SEE TM 743-200-1 (DUNNAGE LUMBER) AND VOLUNTARY PRODUCT STANDARD PS 20.
<u>NAILS</u> :	ASTM F1667; COMMON STEEL NAIL (NLCMS OR NLCMMS).
<u>PLYW000</u> ;	COMMERCIAL ITEM DESCRIPTION A-A-55057, INDUSTRIAL PLYWOOD, INTERIOR WITH EXTER- IOR GLUE, GRADE C-D. IF SPECIFIED GRADE IS NOT AVAILABLE, A BETTER INTERIOR OR AN EXTERIOR GRADE MAY BE SUBSTITUTED.
ANTI-CHAFING MATERIAL:	MIL-B-121 (OR EQUAL); NEUTRAL BARRIER MATERIAL,
HARDBOARD:	:ANSI/AHA A135.4, CLASS 1.







### FMU-143B/B (F809) IN PA60 METAL BOX

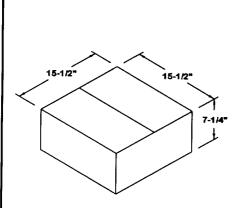
GROSS WEIGHT - - - - - - 21 LBS (APPROX)
CUBE - - - - - - 0.6 CUBIC FEET (APPROX)

### WGU-39/B (EA37) IN CNU-371/E CONTAINER

PALLETIZE IAWU.S. AIR FORCE DRAWING 817371, ELIMINATING ONE CNU-371/E CONTAINER AND ADDING ONE FILLER ASSEMBLY AS DEPICTED ON PAGE 10.

8 CONTAINERS OF WGU-39/B (1 PER CONTAINER) AT 144 LBS - 1,152 LBS (APPROX) FILLER ASSEMBLY - - - - - - - - - - - - - - - - - - 12 LBS DUNNAGE - - - - - - - - - - - - - - - - 12 LBS PALLET - - - - - - - 80 LBS

TOTAL WEIGHT - - - - - - - - - - - 1,289 LBS (APPROX)
CUBE - - - - - - - - - - 50.9 CU FT (APPROX)

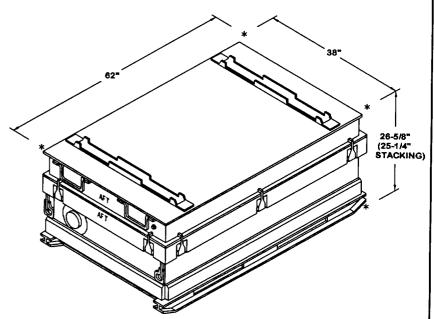


# SWIVEL AND LOOP ASSEMBLY (FY73) IN FIBERBOARD BOX

GROSS WEIGHT - - - 5 LBS (APPROX) CUBE - - - 1.0 CUBIC FEET (APPROX)

# SWIVEL AND LINK ASSEMBLY (CY72) IN FIBERBOARD BOX

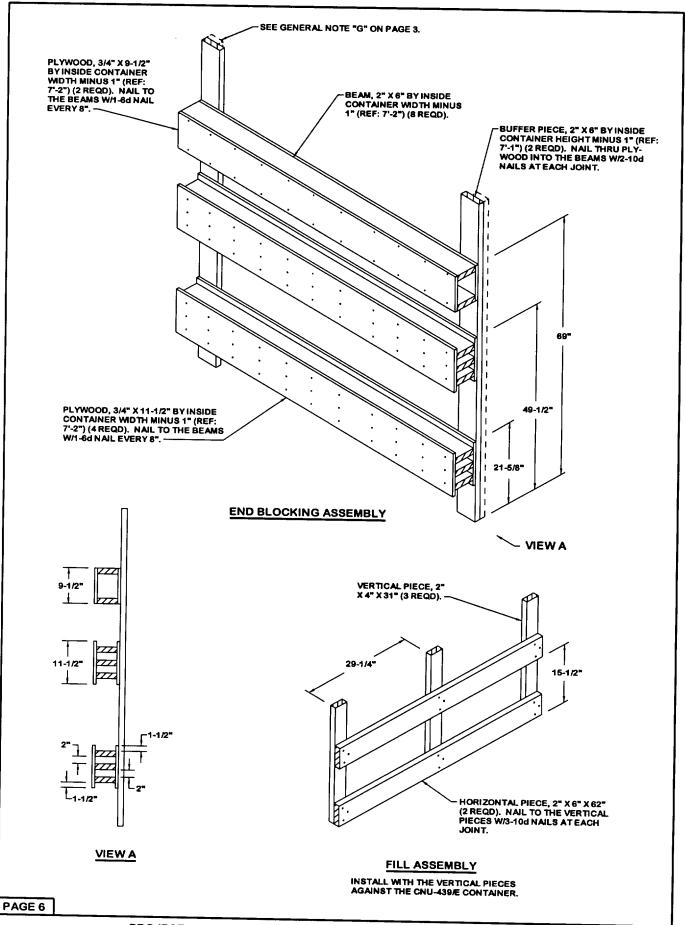
GROSS WEIGHT - - - 4 LBS (APPROX) CUBE - - - 1.0 CUBIC FEET (APPROX)

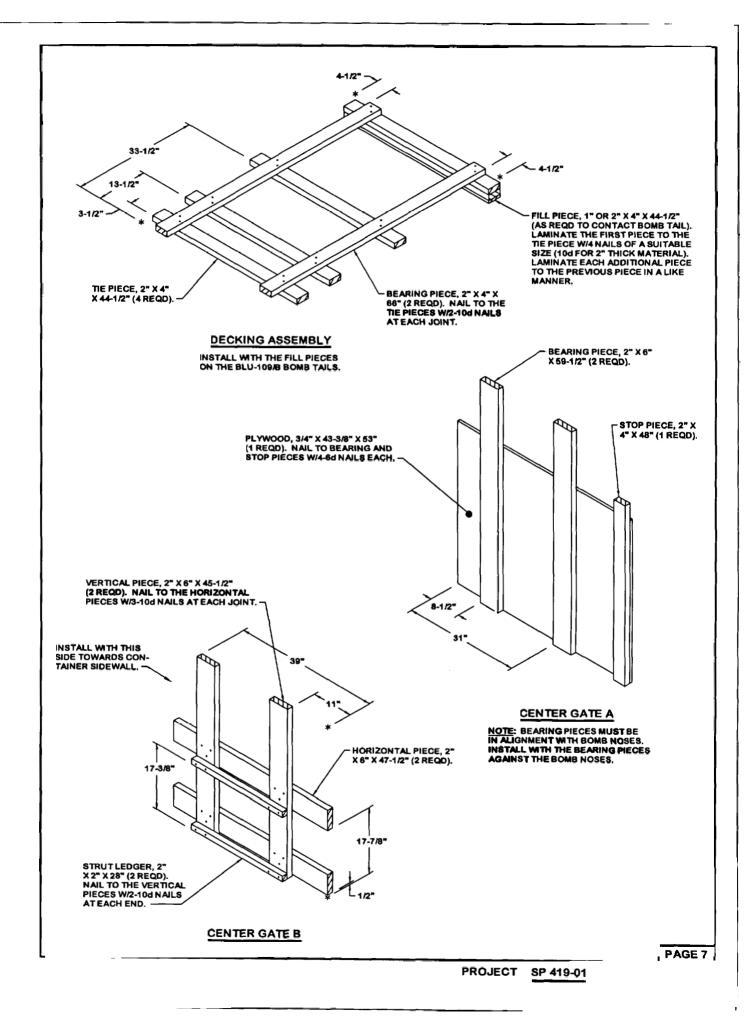


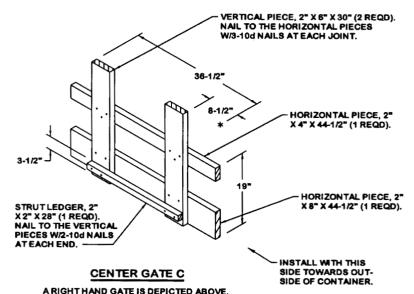
### ADG-769/B (CY19) IN CNU-439/E CONTAINER

GROSS WEIGHT - - - - - - - - - 466 LBS (APPROX)
CUBE - - - - - - 36.3 CUBIC FEET (APPROX)

PAGE 5







A RIGHT HAND GATE IS DEPICTED ABOVE, A LEFT HAND GATE IS ALSO REQUIRED.

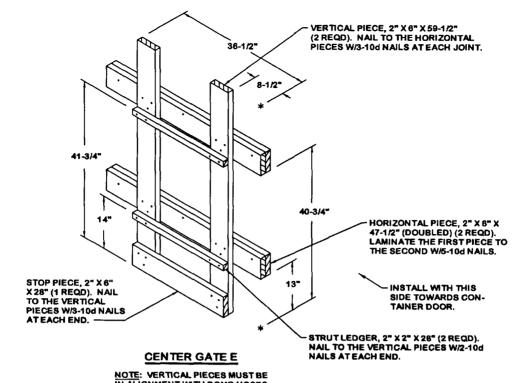
WERTICAL PIECE, 2" X 9" X 18" (REF. 7-3") (2 REQD). NAIL TO THE HORIZONTAL PIECE, 2" X 6" X 43-1/2" (3 REQD). NAIL TO THE HORIZONTAL PIECE, 2" X 6" X 43-1/2" (3 REQD). NAIL TO THE HORIZONTAL PIECE, 2" X 6" X 43-1/2" (3 REQD). NAIL TO THE HORIZONTAL PIECE, 2" X 6" X 43-1/2" (3 REQD). NAIL TO THE WERTICAL PIECES W/2-10d NAILS AT EACH END.

STRUTLEDGER, 2" X 2" X 28" (TRIPLED) (1 REQD). NAIL TO THE WERTICAL PIECES W/2-10d NAILS AT EACH END. AND THE WERTICAL PIECES W/3-10d NAILS AT EACH END. LAMINATE THE SECOND PIECE TO THE FIRST W/3-10d NAILS AT EACH END. LAMINATE THE SECOND PIECE TO THE FIRST W/3-10d NAILS AT EACH END. LAMINATE THE THIRD PIECE TO THE SECOND IN A LIKE MANNER.

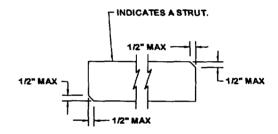
### CENTER GATE D

NOTE: THE ABOVE ASSEMBLY HAS BEEN SHOWN ROTATED 180'FROM THE ORIENTATION IN WHICH IS TO BE INSTALLED FOR CLARITY PURPOSES.

PAGE 8

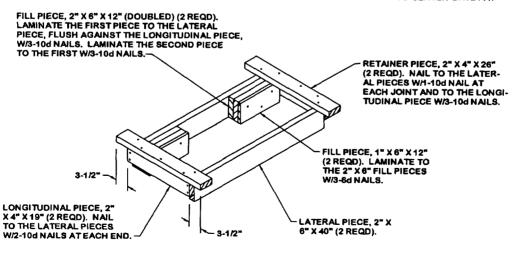


NOTE: VERTICAL PIECES MUST BE IN ALIGNMENT WITH BOMB NOSES.



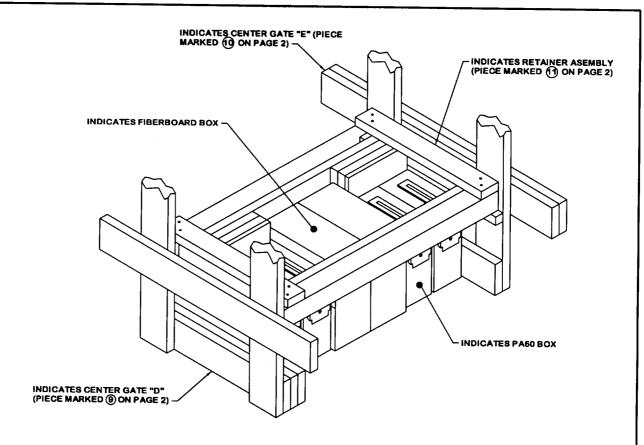
### **BEVEL-CUT**

IF DESIRED, EACH END OF A STRUT MAY BE BEVEL-CUT AS SHOWN ABOVE TO FACILITATE THE ACHIEVEMENT OF A TIGHT CENTER-GATE-TO-CENTER-GATE FIT.



RETAINER ASSEMBLY

PAGE 9



### SECUREMENT OF MISCELLANEOUS BOXES

